

Fig. 1

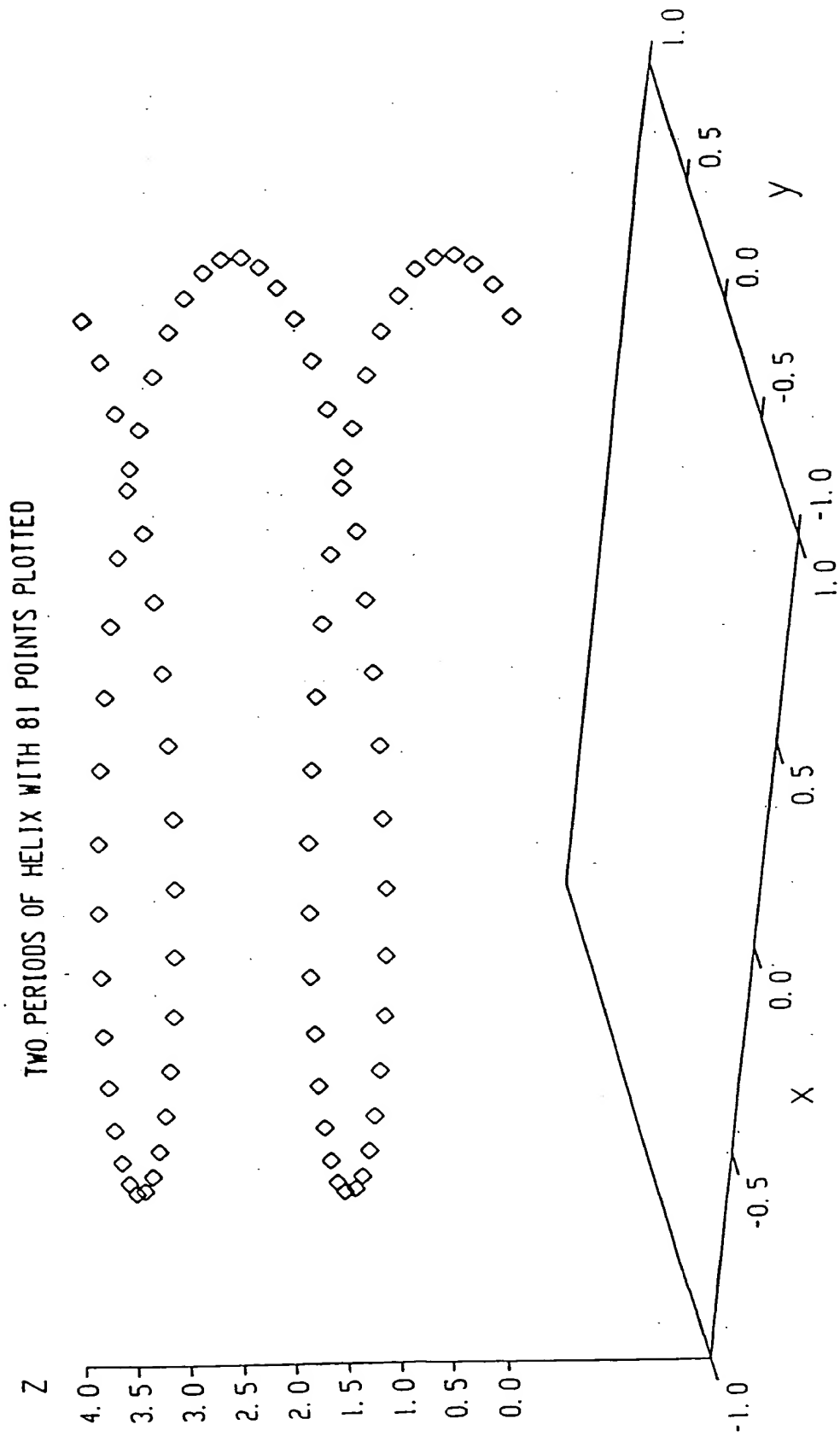


Fig. 2

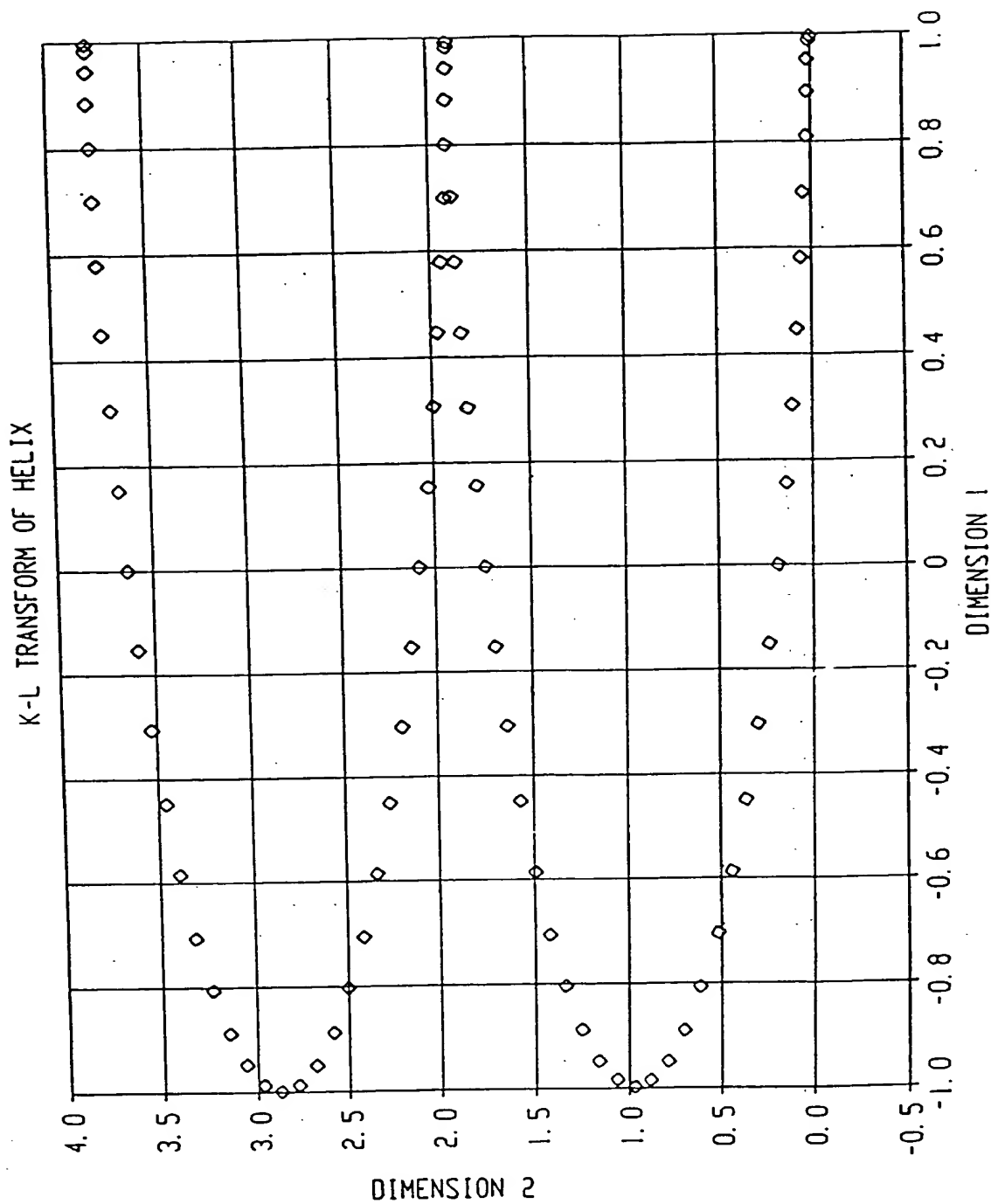


Fig. 3

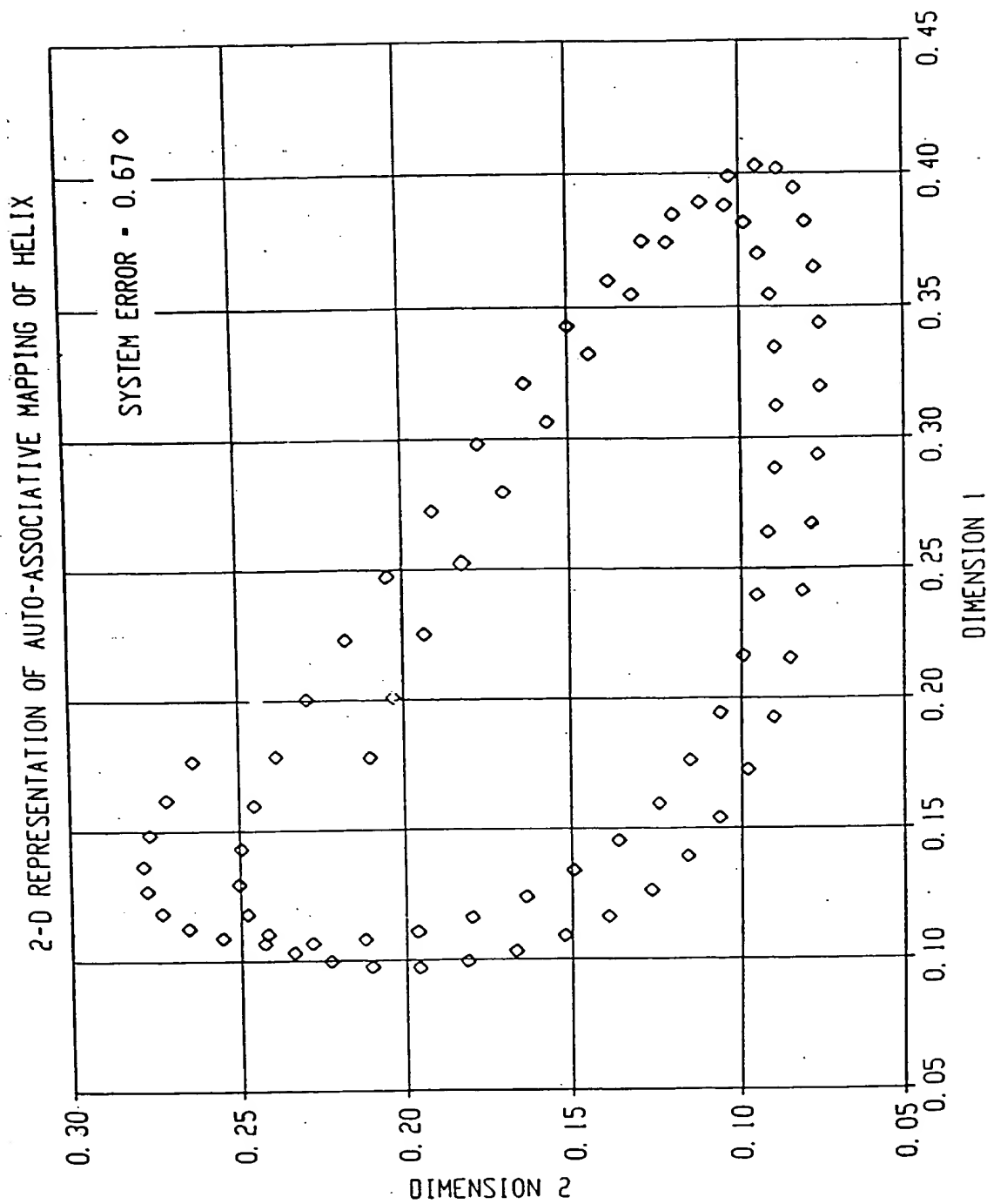


Fig. 4



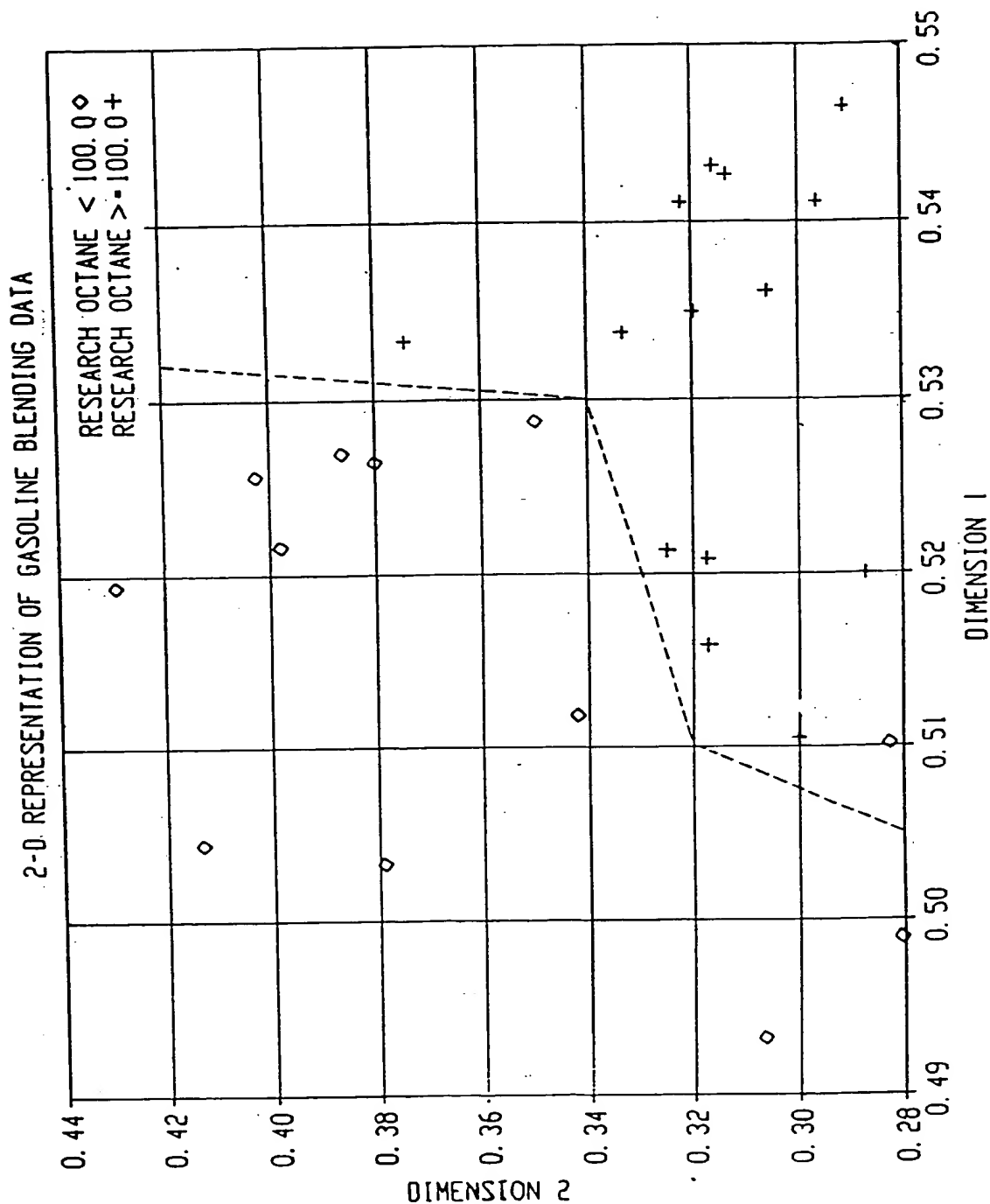


Fig. 6

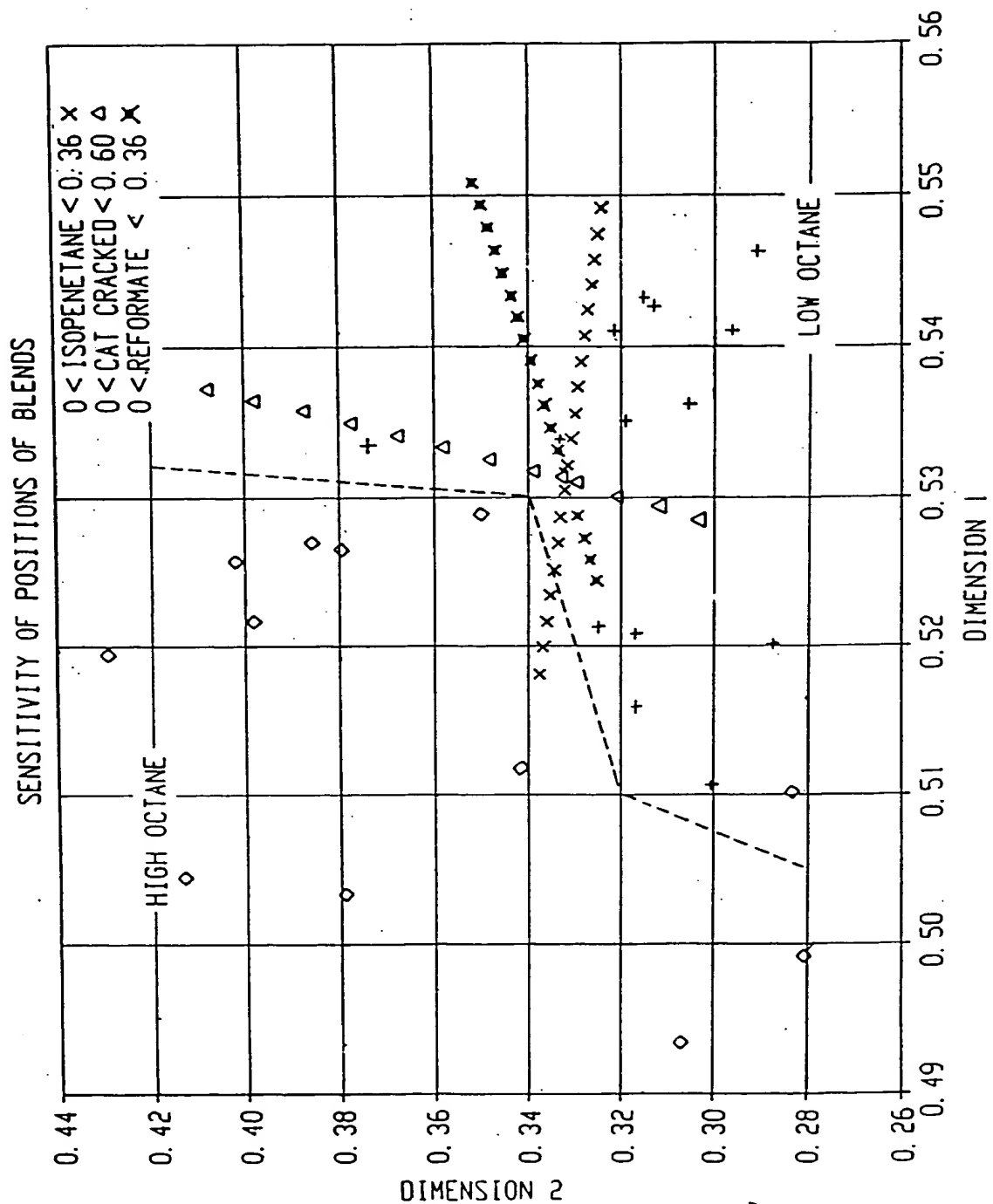


Fig. 7

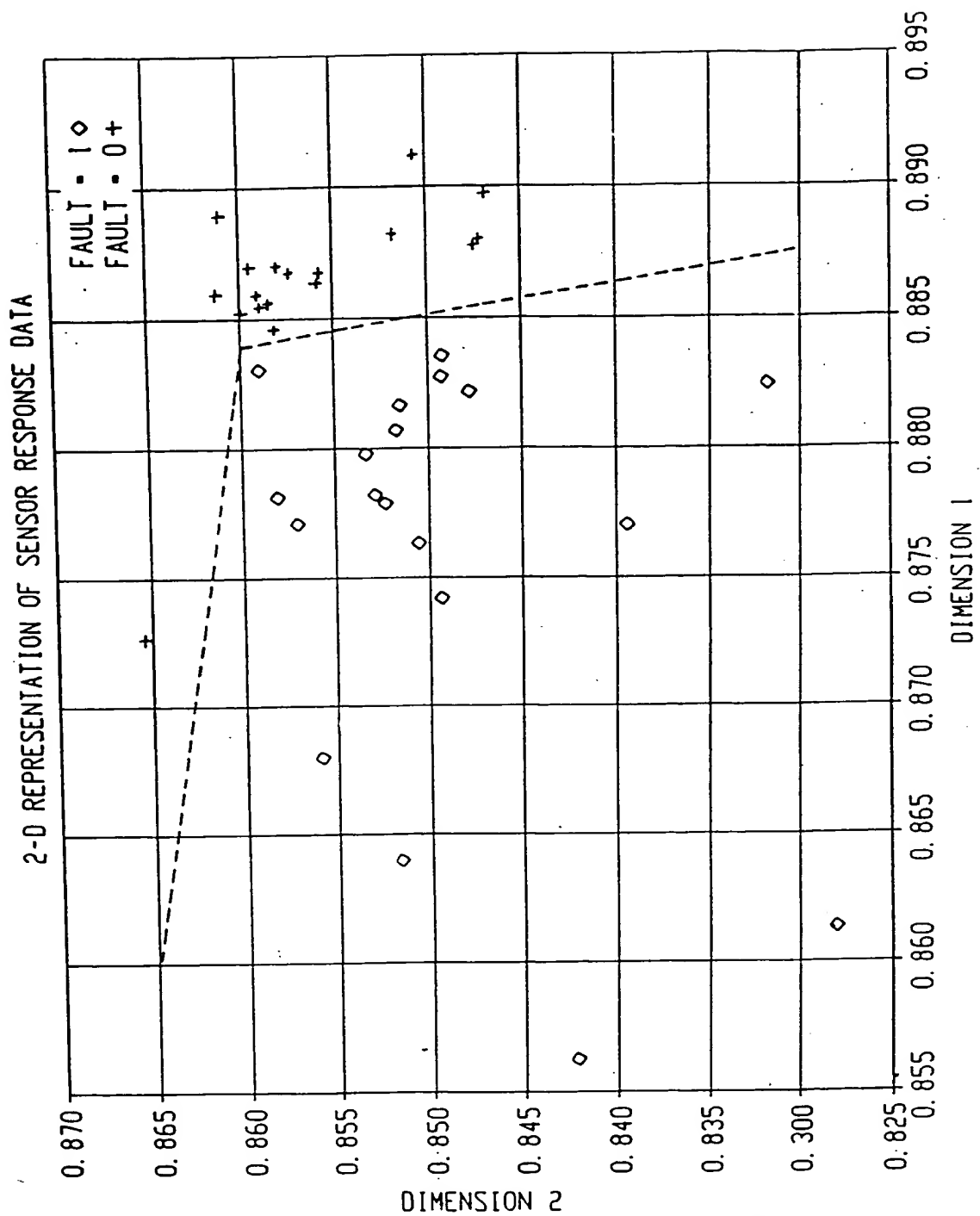


Fig. 8

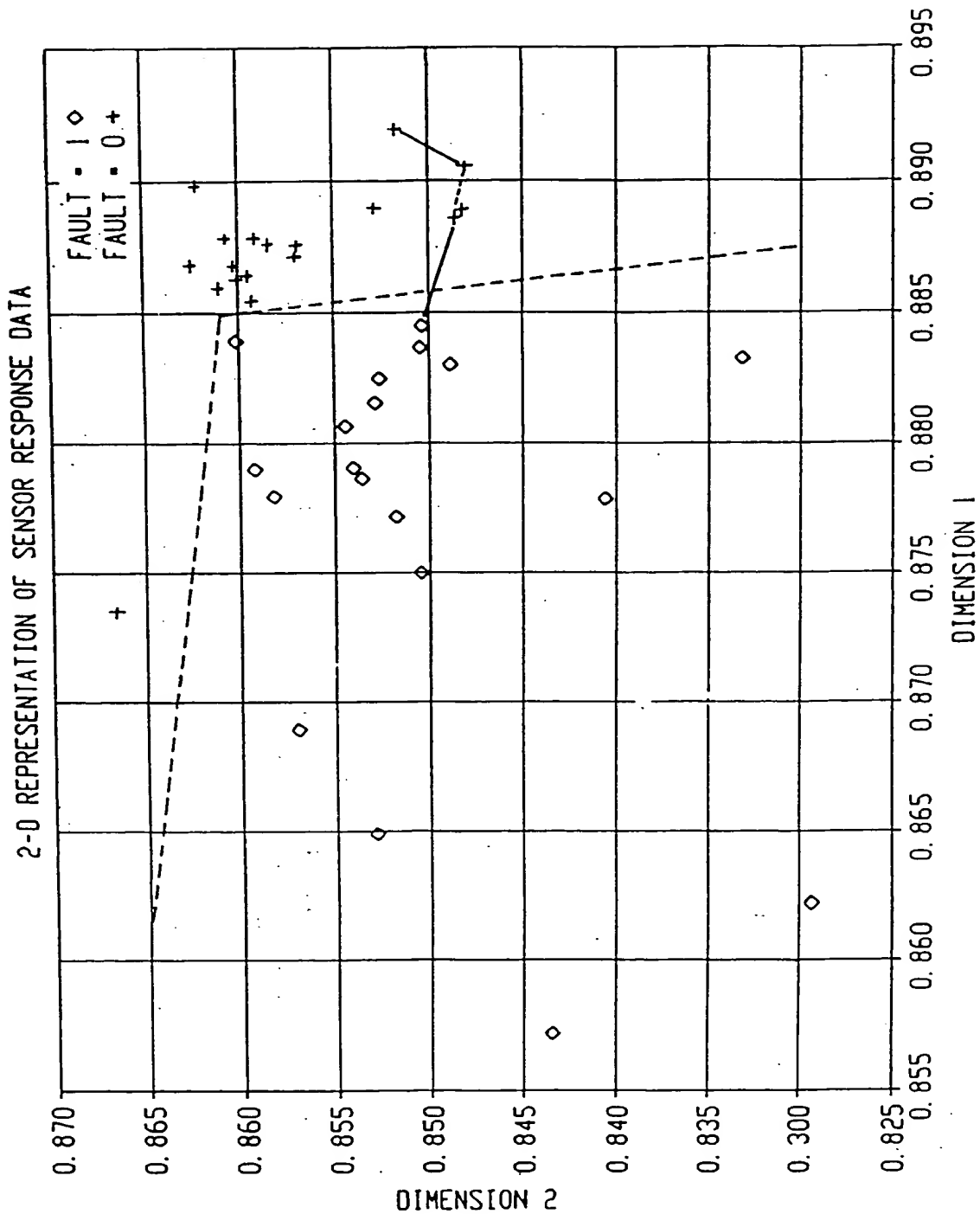
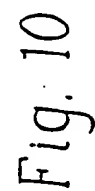


Fig. 9



No.	x1	x2	x3	x4	x5	y
1	0.000	0.000	0.350	0.600	0.600	100.0
2	0.000	0.300	0.100	0.000	0.600	101.0
3	0.000	0.300	0.000	0.100	0.600	100.0
4	0.150	0.150	0.100	0.600	0.000	97.3
5	0.150	0.000	0.150	0.600	0.100	97.8
6	0.000	0.300	0.490	0.600	0.051	96.7
7	0.000	0.300	0.000	0.489	0.211	97.0
8	0.150	0.127	0.023	0.600	0.100	97.3
9	0.150	0.000	0.311	0.539	0.000	99.7
10	0.000	0.300	0.285	0.415	0.000	99.8
11	0.000	0.080	0.350	0.570	0.000	100.0
12	0.150	0.150	0.266	0.434	0.000	99.5
13	0.150	0.150	0.082	0.018	0.600	101.9
14	0.000	0.158	0.142	0.100	0.600	100.7
15	0.000	0.000	0.300	0.416	0.239	100.9
16	0.150	0.034	0.116	0.444	0.600	101.2
17	0.068	0.121	0.175	0.332	0.192	98.2
18	0.067	0.098	0.234	0.000	0.270	100.5
19	0.000	0.300	0.192	0.208	0.300	100.6
20	0.150	0.150	0.174	0.226	0.300	100.6
21	0.075	0.225	0.276	0.424	0.000	99.1
22	0.075	0.225	0.000	0.100	0.600	100.4
23	0.000	0.126	0.174	0.600	0.100	98.4
24	0.075	0.000	0.225	0.600	0.100	98.2
25	0.150	0.150	0.000	0.324	0.376	99.4
26	0.000	0.300	0.192	0.508	0.000	98.6

x1 = BUTANE

x2 = ISOPENETANE

x3 = REFORMATE

x4 = CAT CRACKED

x5 = ALKYLATE

y = RESEARCH OCTANE AT 2.0 GRAMS OF LEAD/GALLON

Fig. 11

TABLE 2: TIME-DEPENDENT SENSOR DATA PROFILES

NO.	t:1-5	t:6-11	t:12-17	t:18-23	t:24-29	FAULT
1	0.65190	0.13019	0.31398	0.69901	0.30067	0.00000
2	0.27577	0.56790	0.24946	0.61443	0.70156	1.00000
3	0.86528	0.30303	0.10538	0.56716	0.58797	0.00000
4	0.15642	0.83277	0.58065	0.37313	0.58352	1.00000
5	0.82369	0.27834	0.24731	0.67413	0.90200	0.00000
6	0.35353	0.67116	0.16559	0.65920	0.82405	1.00000
7	0.40958	0.35241	0.41290	0.73881	0.70601	0.00000
8	0.35443	0.33782	0.55054	0.70647	0.71269	1.00000
9	0.54702	0.57350	0.59355	0.67413	0.72606	0.00000
10	0.34177	0.60718	0.79355	0.79851	0.64588	1.00000
11	0.47920	0.65208	0.67312	0.83582	0.74833	0.00000
12	0.35353	0.57800	0.94409	0.95025	0.74610	1.00000
13	0.47197	0.32099	0.36559	0.58209	0.52561	0.00000
14	0.36528	0.39843	0.44731	0.61940	0.55457	1.00000
15	0.44123	0.29854	0.34624	0.57711	0.55457	0.00000
16	0.35805	0.35354	0.42150	0.59701	0.56793	1.00000
17	0.49005	0.32997	0.41505	0.72139	0.67929	0.00000
18	0.31284	0.43547	0.43656	0.72388	0.70601	1.00000
19	0.43309	0.31674	0.39785	0.71642	0.73497	0.00000
20	0.34991	0.3625	0.44946	0.71144	0.73051	1.00000
21	0.46745	0.26936	0.40860	0.69652	0.72160	0.00000
22	0.35262	0.37261	0.42366	0.70398	0.70601	1.00000
23	0.59042	0.25253	0.48602	0.78358	0.82628	0.00000
24	0.38427	0.37486	0.48172	0.79851	0.80401	1.00000
25	0.38156	0.19753	0.40645	0.63930	0.83296	0.00000
26	0.34810	0.52189	0.44516	0.68906	0.72160	1.00000
27	0.75769	0.91134	0.44301	0.61194	0.51225	0.00000
28	0.41863	1.00000	1.00000	0.59453	0.49220	1.00000
29	0.50723	0.36364	0.40645	0.68159	0.71715	0.00000
30	0.34991	0.47250	0.45806	0.70149	0.70156	1.00000
31	0.54069	0.24691	0.38279	0.70647	0.73051	0.00000
32	0.38788	0.40404	0.38710	0.70149	0.72383	1.00000
33	0.41320	0.32660	0.41075	0.68408	0.71715	0.00000
34	0.34991	0.34007	0.49247	0.68906	0.70379	1.00000
35	0.39873	0.35354	0.44516	0.68906	0.69710	0.00000
36	0.33906	0.32323	0.58065	0.70149	0.69710	1.00000
37	0.29747	0.26824	0.42366	0.74378	0.85746	0.00000
38	0.30561	0.21886	0.36129	0.59950	0.67038	1.00000

Fig. 12

TABLE 3: SEMICONDUCTOR CRYSTAL STRUCTURE PARAMETERS AND BAND GAPS

No.	COMPOUNDS	u	a	c	c/a	GAP
1	AgGaS ₂	0.28	5.75722	10.3036	1.790	2.55
2	AgAlS ₂	0.3	5.73	10.3	1.798	3.13
3	AgGaSe ₂	0.27	5.755	10.28	1.786	1.8
4	CdSiAs ₂	0.298	5.884	10.882	1.849	1.55
5	CdGeP ₂	0.2839	5.738	10.765	1.876	1.72
6	AgAlTe ₂	0.26	6.296	11.83	1.879	2.25
7	CdGeAs ₂	0.278	5.9432	11.2163	1.887	0.6
8	AgGaTe ₂	0.26	6.3197	11.9843	1.896	1.1
9	AgInTe ₂	0.25	5.836	11.1789	1.916	1.9
10	CdSnP ₂	0.265	5.9	11.518	1.952	1.7
11	CuAlSe ₂	0.26	5.6103	10.982	1.957	2.6
12	AgInSe ₂	0.25	6.455	12.644	1.959	0.96
13	CdSnAs ₂	0.262	6.09	11.94	1.961	0.26
14	ZnGeP ₂	0.25816	5.46	10.71	1.962	2.34
15	CuAlS ₂	0.27	5.31	10.42	1.962	3.35
16	ZnGeAs ₂	0.25	5.66	11.154	1.971	0.75
17	CuFeS ₂	0.27	5.289	10.423	1.971	0.53
18	AgAlSe ₂	0.27	5.95	10.75	1.807	2.6
19	CuAlTe ₂	0.25	5.964	11.78	1.975	2.06
20	CuGaTe ₂	0.25	6.013	11.934	1.985	1.24
21	CuTiSe ₂	0.25	5.832	11.63	1.994	1.07
22	ZnSnAs ₂	0.231	5.851	11.702	2.000	0.65
23	ZnSnP ₂	0.238	5.65	11.3	2.000	1.66
24	ZnInSe ₂	0.224	5.784	11.614	2.008	0.95
25	CuInS ₂	0.2	5.5228	11.1321	2.106	1.54
26	CuGaS ₂	0.25	5.555	11.0036	1.981	1.71

Fig. 13

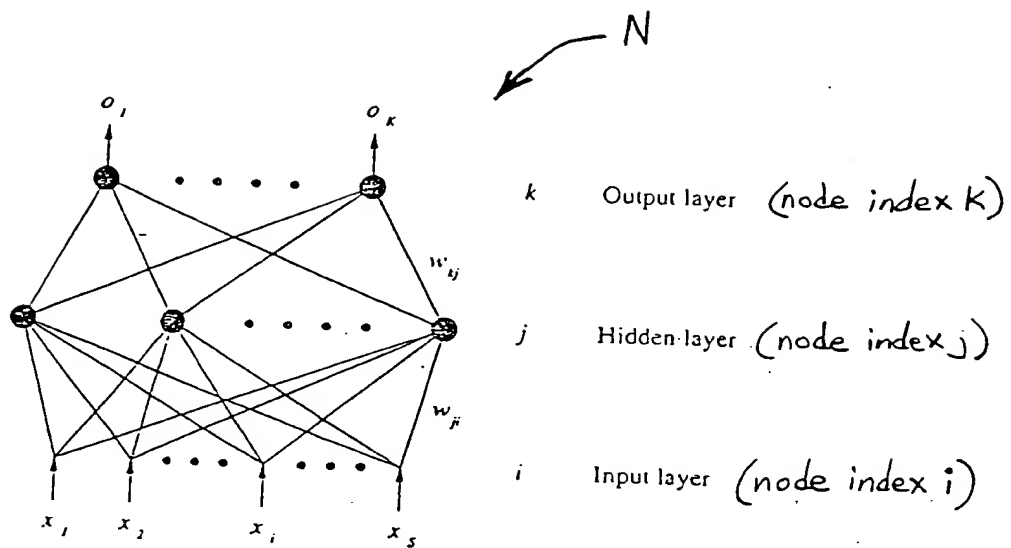


Fig. 14

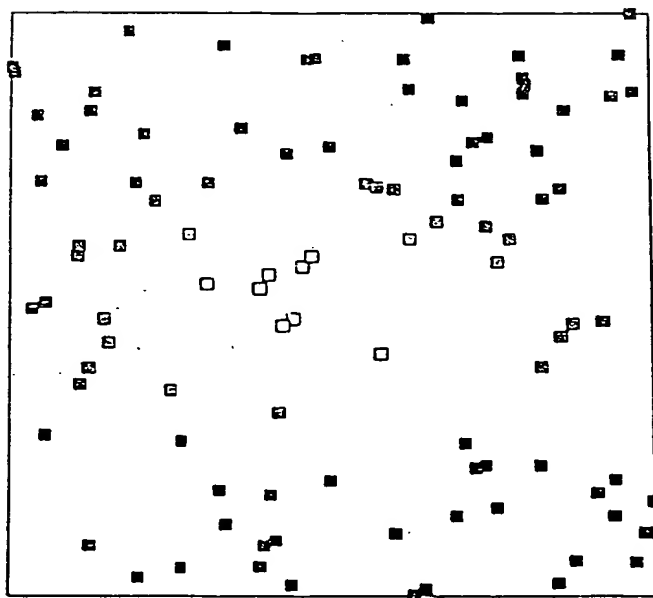


Fig. 15

A 10x10 grid of squares, some filled and some empty, representing a sparse matrix. The grid is enclosed in a double-line border.

Fig. 16D

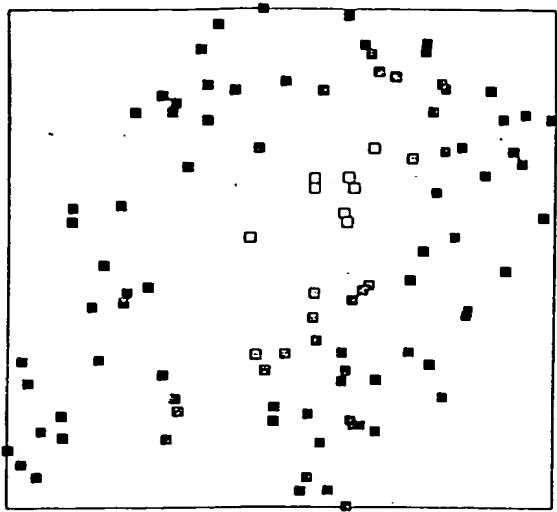


Fig. 17A

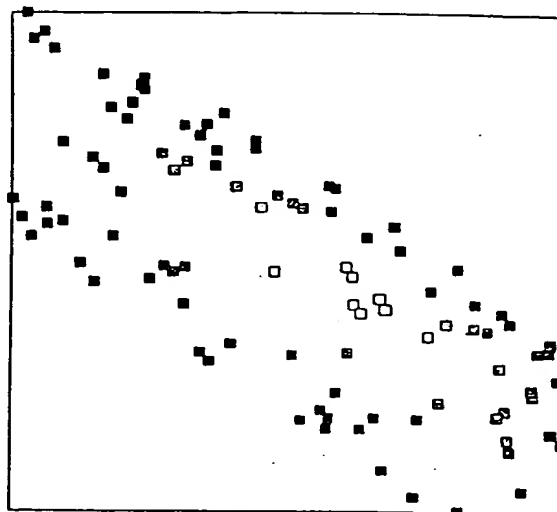


Fig. 17B

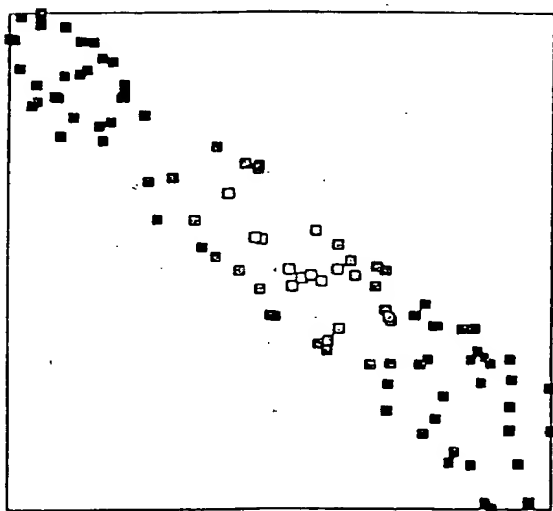


Fig. 17C

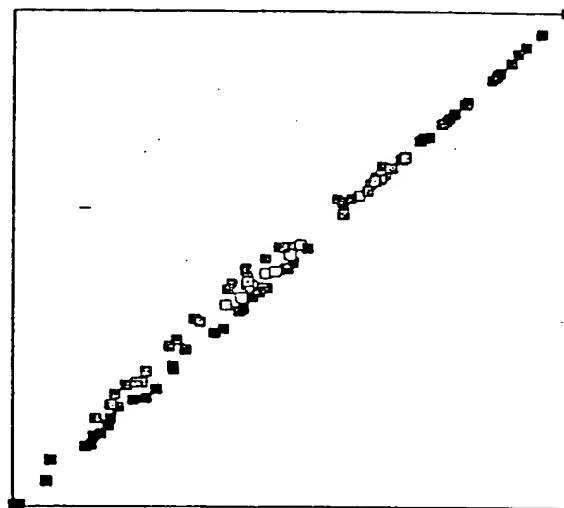


Fig. 17D

Fig. 18A

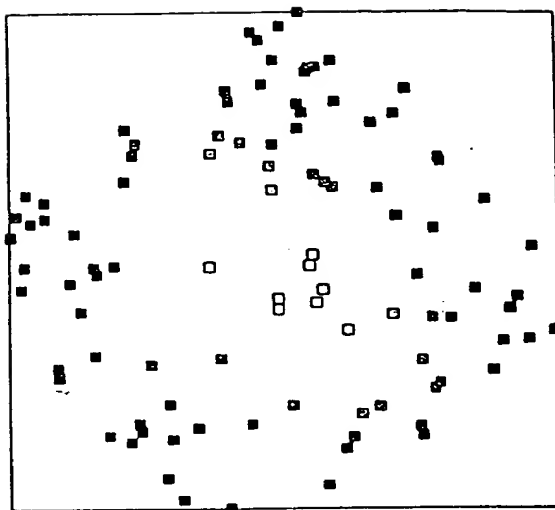


Fig. 18B

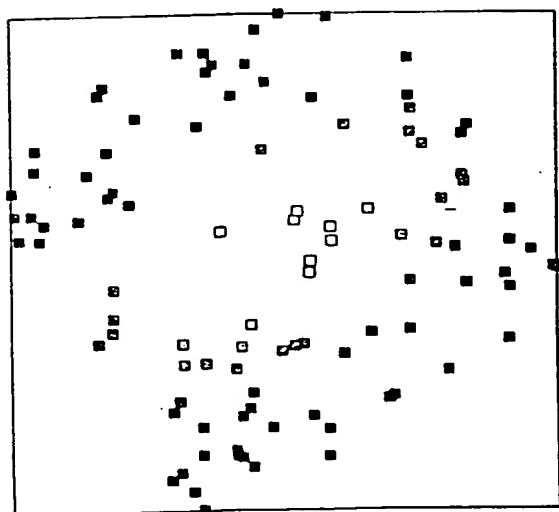


Fig. 18C

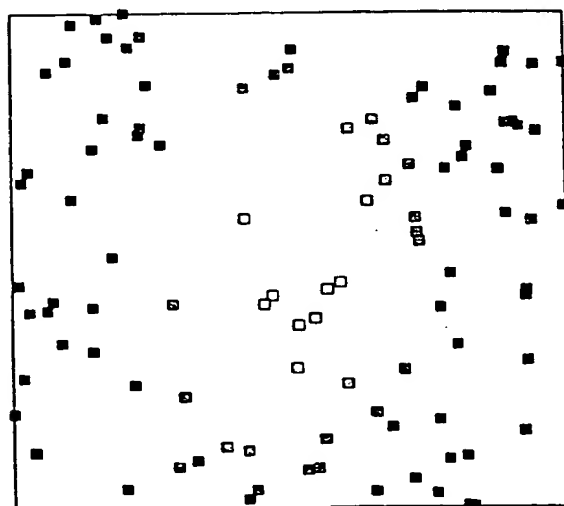


Fig. 18D.

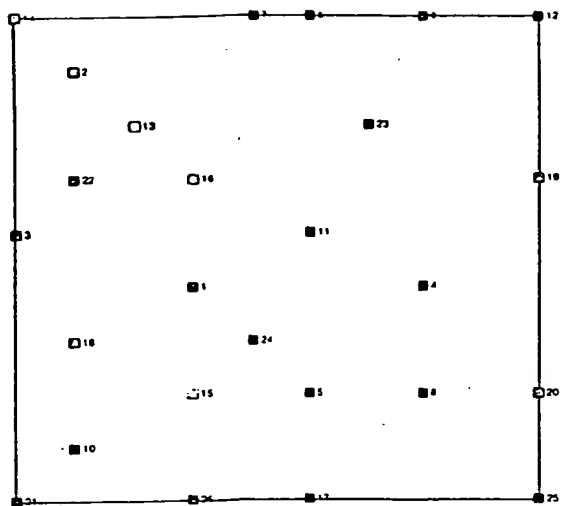


Fig. 19A

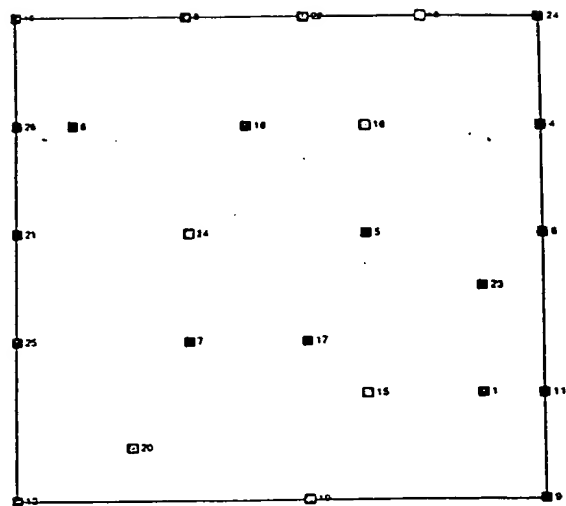


Fig. 19B

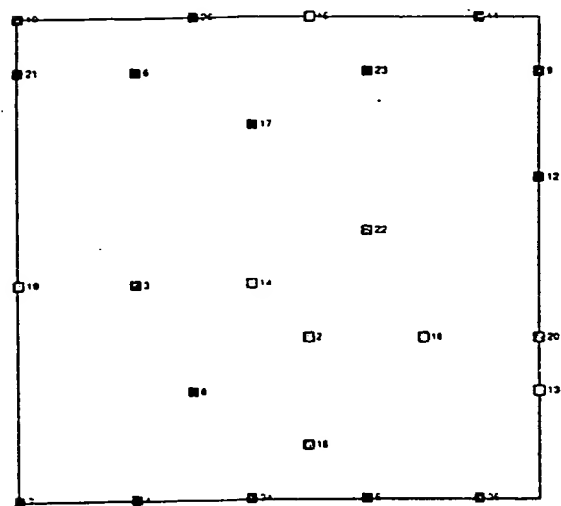


Fig. 19C

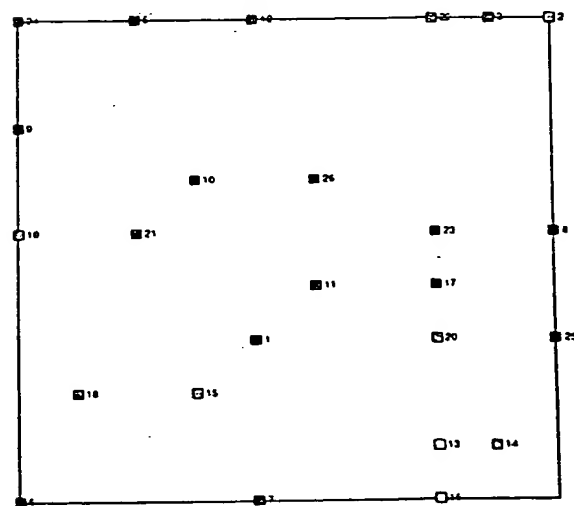


Fig. 19D

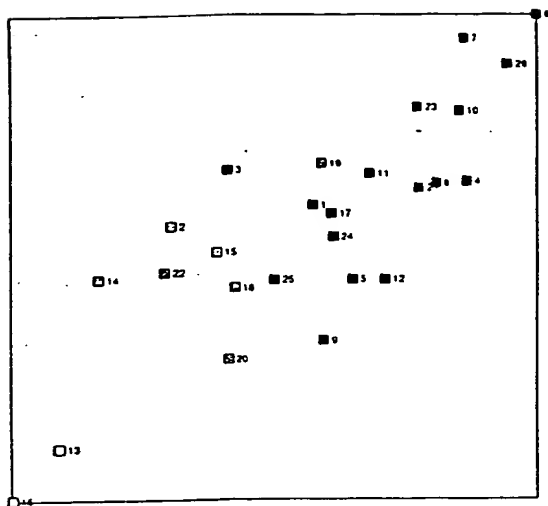


Fig. 20A

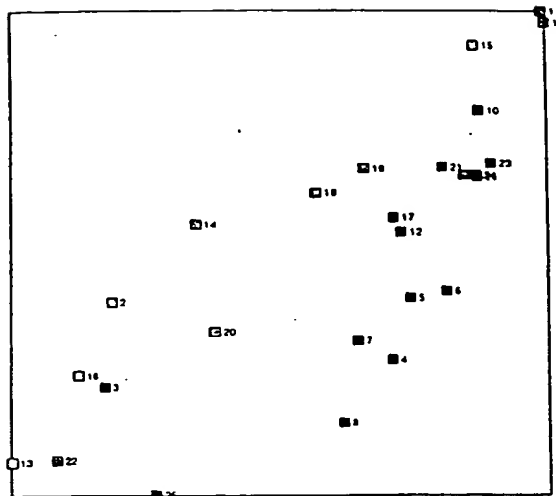


Fig. 20B

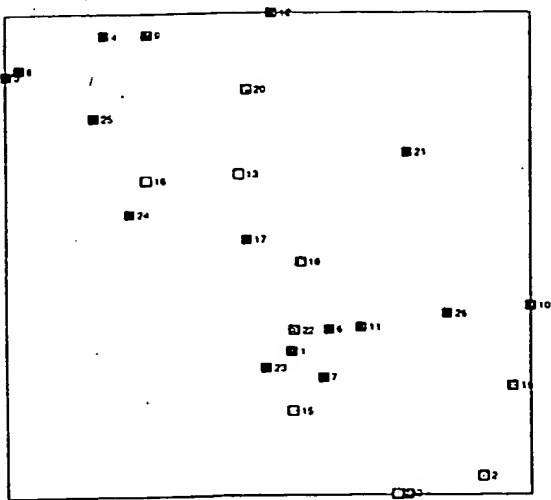


Fig. 20C

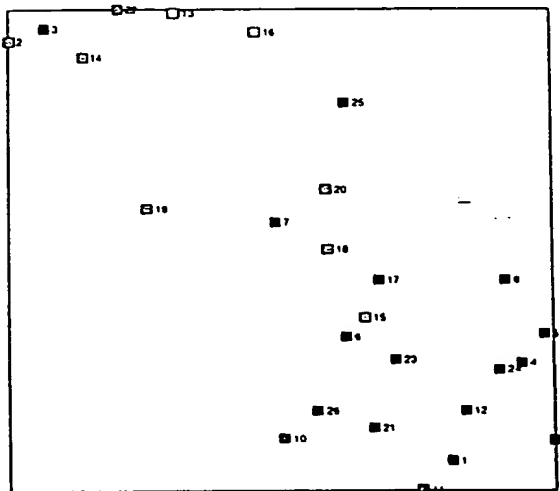


Fig. 20D

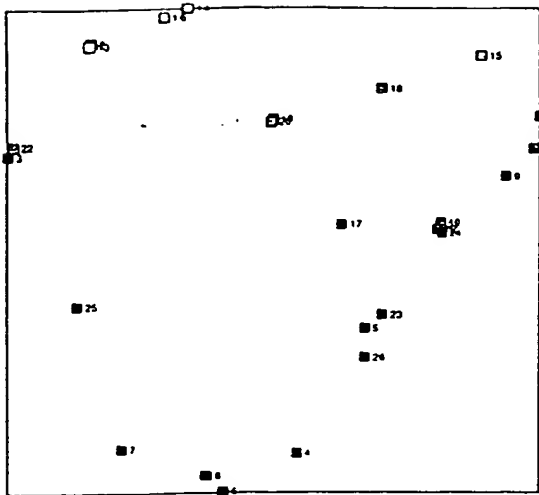


Fig. 21A

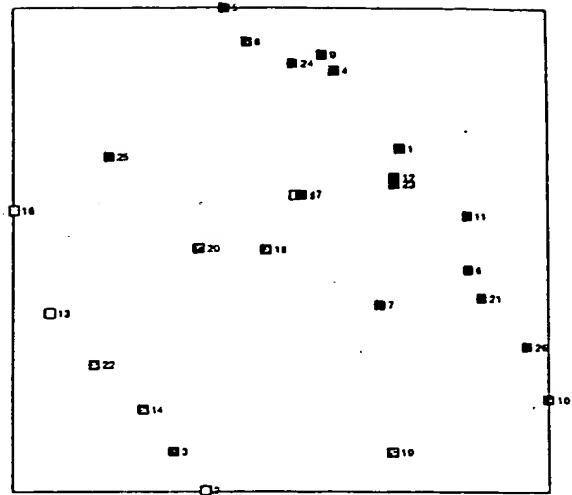


Fig. 21B

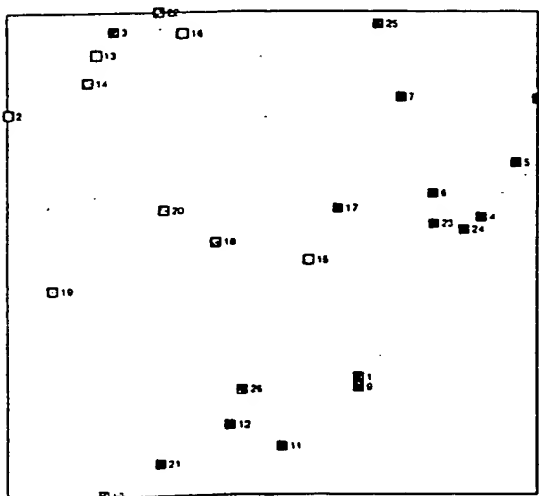


Fig. 21C

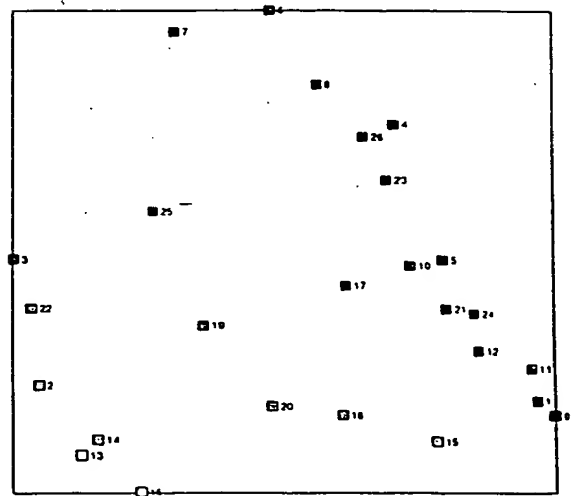


Fig. 21D

This is a high-contrast, black and white image, likely a scan of a physical document. The image is characterized by a dense, grainy texture that covers most of the frame. On the left side, there is a large, bright, irregular white shape that appears to be a reflection or a blank area, contrasting sharply with the dark, textured background. The overall appearance is that of a book cover or endpaper with a complex, possibly woven or printed, pattern.

Fig. 22B